

Appendix 9A – Small Hypothetical Phase II Communities

Small City of 10,000 population																
Hourly staff costs (includes salary plus 40% for benefits and 100% for overhead):																
	Technician 1	\$60														
	Professional 1	\$70														
	Professional 2	\$80														
	Professional 3	\$100														
NPDES Start-Up Costs																
Prior to Year 1																
			Hours	Cost												
Professional 2	Engineer		800	\$64,000												
Professional 3	Manager		416	\$41,600												
	Notes															
	Total: Start-Up		1216	\$105,600												
Public Education BMPs – Small City																
			Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
		Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 2A - Stormwater Outreach Strategy																
Professional 1	Public Outreach Spec.	16		\$1,120	16	\$1,120	24	\$1,680	4	\$280	4	\$280	64	\$4,480	4	\$280
Professional 2	Engineer	8		\$640	8	\$640	8	\$640	4	\$320	4	\$320	32	\$2,560	4	\$320
Professional 3	Manager			\$0		\$0	4	\$400		\$0		\$0	4	\$400		\$0
	Notes		target audiences		develop messages		finalize plan		review and update		review and update					
	Total: BMP 2A		24	\$1,760	24	\$1,760	36	\$2,720	8	\$600	8	\$600	100	\$7,440	8	\$600
BMP 2B - Stormwater Brochure																
Technician 1	Maintenance Staff						60	\$3,600	60	\$3,600	60	\$3,600	180	\$10,800	60	\$3,600
Professional 1	Maint. Crew Supervisor						40	\$2,800	40	\$2,800	40	\$2,800	120	\$8,400	40	\$2,800
Professional 1	Public Outreach Spec.						28	\$1,960	8	\$560	8	\$560	44	\$3,080	8	\$560
Professional 2	Engineer						8	\$640	4	\$320	4	\$320	16	\$1,280	4	\$320
Professional 3	Manager						4	\$400	2	\$200	2	\$200	8	\$800	2	\$200
	Printing/Distribution Costs							\$5,670		\$5,670		\$5,670		\$17,010		\$5,670
	Notes						tailor brochure, distribute		distribute		distribute					
	Total: BMP 2B						40	\$15,070	14	\$13,150	14	\$13,150	68	\$41,370	14	\$13,150

BMP 2D – Storm Drain Stenciling																
Professional 1	Public Outreach Spec.			80	\$5,600	80	\$5,600	80	\$5,600	240	\$16,800	80	\$5,600			
Professional 3	Manager			4	\$400	4	\$400	4	\$400	12	\$1,200	4	\$400			
Other Costs					\$960		\$960		\$960		\$2,880		\$960			
Total: BMP 2D				84	\$6,960	84	\$6,960	84	\$6,960	252	\$20,880	84	\$6,960			
BMP 2J - Stormwater Web site																
Professional 1	Computer specialist					100	\$7,000	64	\$4,480	164	\$11,480	64	\$4,480			
Professional 1	Public Outreach Spec.					20	\$1,400	12	\$840	32	\$2,240	12	\$840			
Professional 2	Engineer					20	\$1,600	4	\$320	24	\$1,920	4	\$320			
Professional 3	Manager					20	\$2,000		\$0	20	\$2,000		\$0			
Notes																
Total: BMP 2J		0	\$0	0	\$0	0	\$0	160	\$12,000	80	\$5,640	240	\$17,640	80	\$5,640	
Totals: All BMPs Ch. 2		24	\$1,760	24	\$1,760	160	\$24,750	266	\$32,710	186	\$26,350	660	\$87,330	186	\$26,350	
Public Involvement BMPs – Small City																
		Year 1			Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
		Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 3A - Public Review/public meetings																
Technician 1	Maintenance Staff	24		\$1,440									24	\$1,440		
Professional 1	Maint. Crew Supervisor	20		\$1,400									20	\$1,400		
Professional 1	Public Outreach Spec.	80		\$5,600									80	\$5,600		
Professional 2	Engineer	56		\$4,480									56	\$4,480		
Professional 3	Manager	24		\$2,400									24	\$2,400		
Notes																
Total: BMP 3A		204		\$15,320									204	\$15,320		
BMP 3B - News releases																
Professional 1	Public Outreach Spec.	16		\$1,120	8	\$560	8	\$560	8	\$560	8	\$560	48	\$3,360	8	\$560
Professional 2	Engineer	8		\$640	4	\$320	4	\$320	4	\$320	4	\$320	24	\$1,920	4	\$320
Professional 3	Manager	4		\$400		\$0		\$0		\$0		\$0	4	\$400		\$0
Notes																
Total: BMP 3B		28		\$2,160	12	\$880	12	\$880	12	\$880	12	\$880	76	\$5,680	12	\$880

Additional Activity: Respond to Public Calls																
Technician 1	Inspector	30	\$1,800	30	\$1,800	30	\$1,800	30	\$1,800	30	\$1,800	150	\$9,000	30	\$1,800	
Professional 1	Public Outreach Spec.	60	\$4,200	60	\$4,200	60	\$4,200	60	\$4,200	60	\$4,200	300	\$21,000	60	\$4,200	
Professional 2	Engineer	60	\$4,800	60	\$4,800	60	\$4,800	60	\$4,800	60	\$4,800	300	\$24,000	60	\$4,800	
Professional 3	Manager	30	\$3,000	30	\$3,000	30	\$3,000	30	\$3,000	30	\$3,000	150	\$15,000	30	\$3,000	
Total: Additional		180	\$13,800	180	\$13,800	180	\$13,800	180	\$13,800	180	\$13,800	900	\$69,000	180	\$13,800	
Totals: All BMPs Ch. 3		412	\$31,280	192	\$14,680	192	\$14,680	192	\$14,680	192	\$14,680	1,180	\$90,000	192	\$14,680	
Illicit Discharge BMPs – Small City																
		Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years		
		Number	Hours	Cost	Hours	Cost	Hours	Cost								
BMP 4A - Create Map																
Technician 1	Field Staff	80	\$4,800		\$0		\$0		\$0		\$0	80	\$4,800		\$0	
Professional 2	Engineer	30	\$2,400	80	\$6,400		\$0		\$0		\$0	110	\$8,800		\$0	
Professional 3	Manager	8	\$800	16	\$1,600		\$0		\$0		\$0	24	\$2,400		\$0	
Notes																
Total: BMP 4A		118	\$8,000	96	\$8,000	0	\$0	0	\$0	0	\$0	214	\$16,000	0	\$0	
BMP 4B - Ordinance																
Notes																
Total: BMP 4B			\$22,500		\$22,500								\$45,000			
BMP 4C - Illicit Discharge Plan																
Professional 1	Maint. Crew Supervisor					20	\$1,400									
Professional 2	Engineer					120	\$9,600					120	\$9,600			
Professional 3	Manager					20	\$2,000					20	\$2,000			
Notes																
Total: BMP 4C						140	\$11,600					140	\$11,600			
BMP 4D - Spill Response Plan																
Professional 2	Engineer					100	\$8,000					100	\$8,000			
Professional 3	Manager					16	\$1,600					16	\$1,600			
Notes																
Total: BMP 4D						116	\$9,600					116	\$9,600			

BMP 4E - Enforcement Plan																	
Technician 1	Field Staff	6				\$0	14	\$5,040	14	\$5,040	28	\$10,080	14	\$5,040			
Professional 1	Maint. Crew Supervisor	6				\$0	7	\$2,940	7	\$2,940	14	\$5,880	7	\$2,940			
Professional 2	Engineer	6			80	\$6,400	7	\$3,360	7	\$3,360	94	\$13,120	7	\$3,360			
Professional 3	Manager	6			16	\$1,600	1	\$600	1	\$600	18	\$2,800	1	\$600			
Notes		# of events															
Total: BMP 4E					96	\$8,000	29	\$11,940	29	\$11,940	154	\$31,880	29	\$11,940			
BMP 4F - Screen outfalls																	
Technician 1	Field Staff						80	\$4,800	20	\$1,200	100	\$6,000		\$0			
Professional 1	Maint. Crew Supervisor						20	\$1,400	10	\$700	30	\$2,100		\$0			
Professional 2	Engineer							\$0	400	\$32,000	400	\$32,000		\$0			
Professional 3	Manager							\$0	80	\$8,000	80	\$8,000		\$0			
Notes										\$6,000		\$6,000					
Total: BMP 4E							100	\$6,200	510	\$47,900	610	\$54,100	0	\$0			
BMP 4G - Training																	
Technician 1	Inspector				4	\$240	2	\$120	2	\$120	8	\$480	2	\$120			
Technician 1	Field Staff				8	\$480	8	\$480	8	\$480	24	\$1,440	8	\$480			
Professional 1	Maint. Crew Supervisor					\$0		\$0		\$0	0	\$0		\$0			
Professional 2	Engineer				16	\$1,280	16	\$1,280	16	\$1,280	48	\$3,840	16	\$1,280			
Professional 3	Manager				2	\$200	2	\$200	2	\$200	6	\$600	2	\$200			
Notes																	
Total: BMP 4G					30	\$2,200	28	\$1,880	28	\$1,880	80	\$5,760	26	\$1,880			
Totals: All BMPs Ch. 4			118	\$30,500	96	\$30,500	382	\$31,400	57	\$13,820	57	\$13,820	704	\$119,840	55	\$13,820	
Construction BMPs – Small City																	
			Year 1			Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
			Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 5A - Ordinance																	
Costs included in BMP 4A																	

BMP 5B - Training for MS4 staff																	
Technician 1	Inspector																
						\$0	8	\$480	4	\$240	12	\$720	4	\$240			
Professional 1	Inspector Supervisor					16	\$1,120	8	\$560	4	\$280	28	\$1,960	4	\$280		
Professional 1	Plan reviewer/planner					\$0	8	\$560	4	\$280	12	\$840	4	\$280			
Professional 2	Engineer					20	\$1,600	16	\$1,280	8	\$640	44	\$3,520	8	\$640		
Professional 3	Manager					8	\$800		\$0		\$0	8	\$800		\$0		
Notes						develop training		teach course		annual refresher				annual refresher			
Total: BMP 5B						44	\$3,520	40	\$2,880	20	\$1,440	104	\$7,840	20	\$1,440		
BMP 5C - review site plans																	
Professional 1	Plan reviewer	30															
Professional 2	Engineer							288	\$20,160	288	\$20,160	576	\$40,320	288	\$20,160		
Professional 3	Manager							100	\$8,000	100	\$8,000	200	\$16,000	100	\$8,000		
Professional 3	Manager							48	\$4,800	48	\$4,800	96	\$9,600	48	\$4,800		
Notes																	
Total: BMP 5C								436	20,160	436	\$32,960	872	\$65,920	436	\$32,960		
			Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years		
			Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
BMP 5D - Receive info from public																	
Technician 1	Inspector					170	\$10,200	170	\$10,200	170	\$10,200	510	\$30,600	170	\$10,200		
Technician 1	Maintenance Tech.					20	\$1,200	20	\$1,200	20	\$1,200	60	\$3,600	20	\$1,200		
Professional 1	Maintenance Supervisor					114	\$7,980	114	\$7,980	114	\$7,980	342	\$23,940	114	\$7,980		
Professional 1	Public Outreach Specialist					108	\$7,560	100	\$7,000	100	\$7,000	308	\$21,560	100	\$7,000		
Professional 3	Manager					60	\$3,600	60	\$3,600	60	\$3,600	180	\$10,800	60	\$3,600		
Notes																	
Total: BMP 5D						472	\$30,540	464	\$29,980	464	\$29,980	1400	\$90,500	464	\$29,980		
BMP 5E - inspect sites																	
Technician 1	Inspector	30								288	\$17,280	288	\$17,280	576	\$34,560	288	\$17,280
Professional 2	Engineer	30								114	\$9,120	114	\$9,120	228	\$18,240	114	\$9,120
Professional 3	Manager	30								12	\$1,200	12	\$1,200	24	\$2,400	12	\$1,200
Notes										inspect sites, enforcement and follow-up for 20% of sites							
Total: BMP 5E										414	\$27,600	414	\$27,600	828	\$55,200	414	\$27,600

BMP 5F - training for operators																
Professional 2	Engineer							20	\$1,600	8	\$640	28	\$2,240	8	\$640	
Professional 3	Manager							4	\$400		\$0	4	\$400		\$0	
Notes								collect initial info		keep training info				keep training info		
Total: BMP 5E								24	\$2,000	8	\$640	32	\$2,640	8	\$640	
Totals: All BMPs Ch. 5																
		0	\$0	0	\$0	516	\$34,060	1378	\$62,896	1342	\$60,096	3236	\$157,052	1342	\$60,096	
Post-Construction BMPs – Small City																
		Year 1			Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
		Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 6A - Ordinance																
Cost included in BMP 4A																
BMP 6B - Post-Construction Plan																
Professional 2	Engineer					120	\$9,600						120	\$9,600		
Professional 3	Manager					20	\$2,000						20	\$2,000		
Notes																
Total: BMP 6B						140	\$11,600						140	\$11,600		
BMP 6C - Training for MS4 staff																
Technician 1	Inspector							4	\$240	4	\$240	8	\$480	4	\$240	
Professional 1	Inspector Supervisor							24	\$1,680	16	\$1,120	40	\$2,800	16	\$1,120	
Professional 1	Plan Reviewer							4	\$280	8	\$560	12	\$840	8	\$560	
Professional 2	Engineer							24	\$1,920	8	\$640	32	\$2,560	8	\$640	
Professional 3	Manager							8	\$800		\$0	8	\$800		\$0	
Notes																
Total: BMP 6C								64	\$4,920	36	\$2,560	100	\$7,480	36	\$2,560	
BMP 6D - Review site plans																
Professional 1	Plan reviewer	30						288	\$20,160	120	\$8,400	408	\$28,560	120	\$8,400	
Professional 2	Engineer	30						100	\$8,000							
Professional 3	Manager	30						48	\$4,800							
Notes																
Total: BMP 6D								436	20,160	120	\$8,400	556	\$28,560	120	\$8,400	

BMP 6E - Inspect BMPs															
Technician 1	Inspector					80	\$4,800	120	\$7,200	200	\$12,000	escalating			
Professional 2	Engineer					24	\$1,920	40	\$3,200	64	\$5,120				
Professional 3	Manager					8	\$800	16	\$1,600	24	\$2,400				
Notes															
Total: BMP 6E						112	\$7,520	176	\$12,000	288	\$19,520				
Totals: All BMPs Ch. 6		0	\$0	0	\$0	140	\$11,600	612	\$32,600	332	\$22,960	1084	\$67,160	156	\$10,960
Good Housekeeping BMPs – Small City															
		Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
		Hours	Cost	Hours	Cost	Hours	Cost								
BMP 7A - Develop O&M Plan															
Technician 1	Field Staff					40	\$2,400					40	\$2,400		
Professional 1	Maintenance Supervisor					80	\$5,600					80	\$5,600		
Professional 2	Engineer					120	\$9,600					120	\$9,600		
Professional 3	Manager					24	\$2,400					24	\$2,400		
Notes	vehicle costs						\$5,000		\$5,000		\$5,000		\$15,000		\$5,000
Total: BMP 7A						264	\$25,000		\$5,000		\$5,000	264	\$35,000		\$5,000
BMP 7B - Park/Open Space BMPs															
Technician 1	Field Staff									120	\$7,200	120	\$7,200	120	\$7,200
Professional 1	Maintenance Supervisor									60	\$4,200	60	\$4,200	60	\$4,200
Professional 2	Engineer									24	\$1,920	24	\$1,920	24	\$1,920
Professional 3	Manager									16	\$1,600	16	\$1,600	16	\$1,600
Notes															
Total: BMP 7B										220	\$14,920	220	\$14,920	220	\$14,920
BMP 7C - Vehicle Washing BMPs															
Technician 1	Field Staff									120	\$7,200	120	\$7,200	120	\$7,200
Professional 1	Maintenance Supervisor									60	\$4,200	60	\$4,200	60	\$4,200
Professional 2	Engineer									24	\$1,920	24	\$1,920	24	\$1,920
Professional 3	Manager									16	\$1,600	16	\$1,600	16	\$1,600
Notes															
Total: BMP 7C										220	\$14,920	220	\$14,920	220	\$14,920

BMP 7H - Flood Mgmt BMPs															
Technician 1	Inspector							40	\$2,400	40	\$2,400	40	\$2,400		
Technician 1	Field Staff							120	\$7,200	120	\$7,200	120	\$7,200		
Professional 1	Maintenance Supervisor							60	\$4,200	60	\$4,200	60	\$4,200		
Professional 2	Engineer							24	\$1,920	24	\$1,920	24	\$1,920		
Professional 3	Manager							16	\$1,600	16	\$1,600	16	\$1,600		
Notes															
Total: BMP 7H								260	\$17,320	260	\$17,320	260	\$17,320		
BMP 7I - Employee Training															
Technician 1	Inspector							8	\$480	8	\$480	2	\$120		
Technician 1	Field Staff							16	\$960	16	\$960	4	\$240		
Professional 2	Engineer							24	\$1,920	24	\$1,920	16	\$1,280		
Professional 3	Manager							4	\$400	4	\$400		\$0		
Notes															
Total: BMP 7I								52	\$3,760	52	\$3,760	22	\$1,640		
Optional BMP 7 - Street Sweeping															
Totals: All BMPs Ch. 7		0	\$0	0	\$0	264	\$25,000	0	\$5,000	1632	\$115,600	1896	\$145,600	1602	\$113,480
Other Costs: Annual Report Preparation															
Professional 1	Public Outreach Spec.	16	\$1,120	16	\$1,120	16	\$1,120	16	\$1,120	16	\$1,120	80	\$5,600	16	\$1,120
Professional 2	Engineer	40	\$3,200	40	\$3,200	40	\$3,200	40	\$3,200	40	\$3,200	200	\$16,000	40	\$3,200
Professional 3	Manager	8	\$800	8	\$800	8	\$800	8	\$800	8	\$800	40	\$4,000	8	\$800
Notes															
Total: Annual Reporting		64	\$5,120	64	\$5,120	64	\$5,120	64	\$5,120	64	\$5,120	320	\$25,600	64	\$5,120

SMALL CITY	Year 1		Year 2		Year 3		Year 4		Year 5		Total – Years 1-5		Added Years	
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
Total Program Costs:	618	\$68,660	376	\$52,060	1,718	\$146,610	2,569	\$166,826	3,805	\$258,626	9,080	\$692,582	3,597	\$244,506

Appendix 9B – Large Hypothetical Phase II Communities

Large City of 50,000 population																
Hourly staff costs (includes salary plus 40% for benefits and 100% for overhead):																
	Technician 1	\$60														
	Professional 1	\$70														
	Professional 2	\$80														
	Professional 3	\$100														
NPDES Start-Up Costs																
		Prior to Year 1														
		Hours	Cost													
Professional 2	Engineer	1200	\$96,000													
Professional 3	Manager	640	\$64,000													
Notes																
Total: Start-Up		1840	\$160,000													
Public Education BMPs – Large City																
		Year 1		Year 2		Year 3		Year 4		Year 5		Total – Years 1-5		Added Years		
		Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 2A - Stormwater Outreach Strategy																
Professional 1	Public Outreach Spec.	16	\$1,120	16	\$1,120	24	\$1,680	4	\$280	4	\$280	64	\$4,480	4	\$280	
Professional 2	Engineer	8	\$640	8	\$640	8	\$640	4	\$320	4	\$320	32	\$2,560	4	\$320	
Professional 3	Manager		\$0		\$0	4	\$400		\$0		\$0	4	\$400		\$0	
Notes		target audiences		develop messages		finalize plan		review and update		review & update						
Total: BMP 2A		24	\$1,760	24	\$1,760	36	\$2,720	8	\$600	8	\$600	100	\$7,440	8	\$600	
BMP 2B - Stormwater Brochure																
Technician 1	Maintenance Staff					60	\$3,600	60	\$3,600	60	\$3,600	180	\$10,800	60	\$3,600	
Professional 1	Maint. Crew Supervisor					40	\$2,800	40	\$2,800	40	\$2,800	120	\$8,400	40	\$2,800	
Professional 1	Public Outreach Spec.					28	\$1,960	8	\$560	8	\$560	44	\$3,080	8	\$560	
Professional 2	Engineer					8	\$640	4	\$320	4	\$320	16	\$1,280	4	\$320	
Professional 3	Manager					4	\$400	2	\$200	2	\$200	8	\$800	2	\$200	
Printing/Distribution Costs							\$8,330		\$8,330		\$8,330		\$24,990		\$8,330	
Notes						tailor brochure, distribute		distribute		distribute						
Total: BMP 2B						40	\$17,730	14	\$15,810	14	\$15,810	68	\$49,350	14	\$15,810	

BMP 2C - Targeted Brochures														
Technician 1	Maintenance Staff			60	\$3,600	60	\$3,600	60	\$3,600	180	\$10,800	60	\$3,600	
Professional 1	Maint. Crew Supervisor			40	\$2,800	40	\$2,800	40	\$2,800	120	\$8,400	40	\$2,800	
Professional 1	Public Outreach Spec.			28	\$1,960	8	\$560	8	\$560	44	\$3,080	8	\$560	
Professional 2	Engineer			8	\$640	4	\$320	4	\$320	16	\$1,280	4	\$320	
Professional 3	Manager			4	\$400	2	\$200	2	\$200	8	\$800	2	\$200	
Printing/Distribution Costs					\$7,500		\$7,500		\$7,500		\$22,500		\$7,500	
Notes						tailor brochure, distribute		distribute		distribute				
Total: BMP 2C					40	\$16,900	14	\$14,980	14	\$14,980	68	\$46,860	14	\$14,980
BMP 2D - Storm Drain Stenciling														
Professional 1	Public Outreach Spec.			188	\$13,160	188	\$13,160	188	\$13,160	564	\$39,480	188	\$13,160	
Professional 3	Manager			16	\$1,600	16	\$1,600	16	\$1,600	48	\$4,800	16	\$1,600	
Notes					\$2,400		\$2,400		\$2,400		\$7,200		\$2,400	
Total: BMP 2D					204	\$17,160	204	\$17,160	204	\$17,160	612	\$51,480	204	\$17,160
BMP 2E - Classroom Education														
Professional 1	Public Outreach Spec.			40	\$2,800	40	\$2,800	40	\$2,800	120	\$8,400	40	\$2,800	
Professional 3	Manager			4	\$400	16	\$1,600	16	\$1,600	36	\$3,600	16	\$1,600	
Notes											\$0			
Total: BMP 2E					44	\$3,200	56	\$4,400	56	\$4,400	156	\$12,000	56	\$4,400
BMP 2J - Stormwater Web site														
Professional 1	Computer specialist					100	\$7,000	64	\$4,480	164	\$11,480	64	\$4,480	
Professional 1	Public Outreach Spec.					20	\$1,400	12	\$840	32	\$2,240	12	\$840	
Professional 2	Engineer					20	\$1,600	4	\$320	24	\$1,920	4	\$320	
Professional 3	Manager					20	\$2,000		\$0	20	\$2,000		\$0	
Notes														
Total: BMP 2J					0	\$0	0	\$0	0	\$0	160	\$12,000	80	\$5,640
Totals: All BMPs Ch. 2				24	\$1,760	24	\$1,760	364	\$57,710	456	\$64,950	376	\$58,590	

Public Involvement BMPs – Large City		Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
	Number	Hours	Cost	Hours	Cost	Hours	Cost								
BMP 3A - Public Review/public meetings															
Technician 1	Maintenance Staff	48	\$2,880									48	\$2,880		
Professional 1	Maint. Crew Supervisor	40	\$2,800									40	\$2,800		
Professional 1	Public Outreach Spec.	160	\$11,200									160	\$11,200		
Professional 2	Engineer	112	\$8,960									112	\$8,960		
Professional 3	Manager	48	\$4,800									48	\$4,800		
Notes															
Total: BMP 3A		408	\$30,640									408	\$30,640		
BMP 3B - News releases															
Professional 1	Public Outreach Spec.	16	\$1,120	8	\$560	8	\$560	8	\$560	8	\$560	48	\$3,360	8	\$560
Professional 2	Engineer	8	\$640	4	\$320	4	\$320	4	\$320	4	\$320	24	\$1,920	4	\$320
Professional 3	Manager	4	\$400		\$0		\$0		\$0		\$0	4	\$400		\$0
Notes															
Total: BMP 3B		28	\$2,160	12	\$880	12	\$880	12	\$880	12	\$880	76	\$5,680	12	\$880
Additional Activity: Respond to Public Calls															
Technician 1	Inspector	60	\$3,600	60	\$3,600	60	\$3,600	60	\$3,600	60	\$3,600	300	\$18,000	60	\$3,600
Professional 1	Public Outreach Spec.	120	\$8,400	120	\$8,400	120	\$8,400	120	\$8,400	120	\$8,400	600	\$42,000	120	\$8,400
Professional 2	Engineer	120	\$9,600	120	\$9,600	120	\$9,600	120	\$9,600	120	\$9,600	600	\$48,000	120	\$9,600
Professional 3	Manager	60	\$6,000	60	\$6,000	60	\$6,000	60	\$6,000	60	\$6,000	300	\$30,000	60	\$6,000
Total: Additional		360	\$27,600	360	\$27,600	360	\$27,600	360	\$27,600	360	\$27,600	1,800	\$138,000	360	\$27,600
Totals: All BMPs Ch. 3		796	\$60,400	372	\$28,480	372	\$28,480	372	\$28,480	372	\$28,480	2,284	\$174,320	372	\$28,480

Illicit Discharge BMPs – Large City		Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years		
		Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 4A - Create Map																
Technician 1	Field Staff		100	\$6,000		\$0		\$0		\$0		\$0	100	\$6,000	\$0	
Professional 2	Engineer		80	\$6,400	160	\$12,800		\$0		\$0		\$0	240	\$19,200	\$0	
Professional 3	Manager		16	\$1,600	32	\$3,200		\$0		\$0		\$0	48	\$4,800	\$0	
Notes																
Total: BMP 4A			196	\$14,000	192	\$16,000	0	\$0	0	\$0	0	\$0	388	\$30,000	0	\$0
BMP 4B - Ordinance																
Notes																
Total: BMP 4B				\$30,000		\$30,000								\$60,000		
BMP 4C - Illicit Discharge Plan																
Professional 1	Maint. Crew Supervisor					40	\$2,800									
Professional 2	Engineer					160	\$12,800						160	\$12,800		
Professional 3	Manager					24	\$2,400						24	\$2,400		
Notes																
Total: BMP 4C						184	\$15,200						184	\$15,200		
BMP 4D - Spill Response Plan																
Professional 2	Engineer					150	\$12,000						150	\$12,000		
Professional 3	Manager					24	\$2,400						24	\$2,400		
Notes																
Total: BMP 4D						174	\$14,400						174	\$14,400		
BMP 4E - Enforcement Plan																
Technician 1	Field Staff		24				\$0	14	\$20,160	14	\$20,160	28	\$40,320	14	\$20,160	
Professional 1	Maint. Crew Supervisr		24				\$0	7	\$11,760	7	\$11,760	14	\$23,520	7	\$11,760	
Professional 2	Engineer		24			150	\$12,000	7	\$13,440	7	\$13,440	164	\$38,880	7	\$13,440	
Professional 3	Manager		24			24	\$2,400	1	\$2,400	1	\$2,400	26	\$7,200	1	\$2,400	
Notes			# of events													
Total: BMP 4E						174	\$14,400	29	\$47,760	29	\$47,760	232	\$109,920	29	\$47,760	

BMP 4F - Screen outfalls																	
Technician 1	Field Staff					200	\$12,000	50	\$3,000	250	\$15,000		\$0				
Professional 1	Maint. Crew Supervisor					60	\$4,200	20	\$1,400	80	\$5,600		\$0				
Professional 2	Engineer						\$0	1000	\$80,000	1000	\$80,000		\$0				
Professional 3	Manager						\$0	200	\$20,000	200	\$20,000		\$0				
Notes									\$15,000		\$15,000						
Total: BMP 4E						260	\$16,200	1270	\$119,400	1530	\$135,600	0	\$0				
BMP 4G - Training																	
Technician 1	Inspector			24	\$1,440	12	\$720	12	\$720	48	\$2,880	12	\$720				
Technician 1	Field Staff			40	\$2,400	20	\$1,200	20	\$1,200	80	\$4,800	20	\$1,200				
Professional 1	Maint. Crew Supervisor				\$0		\$0		\$0	0	\$0		\$0				
Professional 2	Engineer			32	\$2,560	16	\$1,280	16	\$1,280	64	\$5,120	16	\$1,280				
Professional 3	Manager			8	\$800	4	\$400	4	\$400	16	\$1,600	4	\$400				
Notes																	
Total: BMP 4G				104	\$7,200	52	\$3,200	52	\$3,200	192	\$12,800	48	\$3,200				
Totals: All BMPs Ch. 4				196	\$44,000	192	\$46,000	636	\$51,200	81	\$50,960	81	\$50,960	1170	\$242,320	77	\$50,960
Construction BMPs – Large City																	
		Year 1			Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years		
		Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	
BMP 5A - Ordinance																	
Costs included in BMP 4A																	
BMP 5B - Training for MS4 staff																	
Technician 1	Inspector						\$0	16	\$960	8	\$480	24	\$1,440	8	\$480		
Professional 1	Inspector Supervisor					32	\$2,240	16	\$1,120	8	\$560	56	\$3,920	8	\$560		
Professional 1	Plan reviewer/planner						\$0	16	\$1,120	8	\$560	24	\$1,680	8	\$560		
Professional 2	Engineer					40	\$3,200	16	\$1,280	8	\$640	64	\$5,120	8	\$640		
Professional 3	Manager					8	\$800		\$0		\$0	8	\$800		\$0		
Notes							develop training		teach course		annual refresher				annual refresher		
Total: BMP 5B						80	\$6,240	64	\$4,480	32	\$2,240	176	\$12,960	32	\$2,240		

BMP 5C - review site plans																
Professional 1	Plan reviewer	80				768	\$53,760	768	\$53,760	1536	\$107,520	768	\$53,760			
Professional 2	Engineer	80				256	\$20,480	256	\$20,480	512	\$40,960	256	\$20,480			
Professional 3	Manager	80				128	\$12,800	128	\$12,800	256	\$25,600	128	\$12,800			
Notes																
Total: BMP 5C						1152	53,760	1152	\$87,040	2304	\$174,080	1152	\$87,040			
BMP 5D - Receive info from public																
Technician 1	Inspector		660	\$39,600		660	\$39,600	660	\$39,600	1980	\$118,800	660	\$39,600			
Technician 1	Maintenance Tech.		60	\$3,600		60	\$3,600	60	\$3,600	180	\$10,800	60	\$3,600			
Professional 1	Maintenance Supervisor		330	\$23,100		330	\$23,100	330	\$23,100	990	\$69,300	330	\$23,100			
Professional 1	Public Outreach Specialist		308	\$21,560		300	\$21,000	300	\$21,000	908	\$63,560	300	\$21,000			
Professional 3	Manager		174	\$10,440		174	\$10,440	174	\$10,440	522	\$31,320	174	\$10,440			
Notes																
Total: BMP 5D			1532	\$98,300		1524	\$97,740	1524	\$97,740	4580	\$293,780	1524	\$97,740			
BMP 5E - inspect sites																
Technician 1	Inspector	80				768	\$46,080	768	\$46,080	1536	\$92,160	768	\$46,080			
Professional 2	Engineer	80				256	\$20,480	256	\$20,480	512	\$40,960	256	\$20,480			
Professional 3	Manager	80				32	\$3,200	32	\$3,200	64	\$6,400	32	\$3,200			
Notes						inspect sites, enforcement and follow-up for 20% of sites										
Total: BMP 5E						1056	\$69,760	1056	\$69,760	2112	\$139,520	1056	\$69,760			
BMP 5F - training for operators																
Professional 2	Engineer					60	\$4,800	30	\$2,400	90	\$7,200	30	\$2,400			
Professional 3	Manager					12	\$1,200	4	\$400	16	\$1,600	4	\$400			
Notes						collect initial info			keep training info			keep training info				
Total: BMP 5E						72	\$6,000	34	\$2,800	106	\$8,800	34	\$2,800			
Totals: All BMPs Ch. 5			0	\$0	0	\$0	1612	\$104,540	3868	\$179,132	3798	\$173,692	9278	\$457,364	3798	\$173,692

Post-Construction BMPs – Large City		Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
	Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 6A - Ordinance															
Cost included in BMP 4A															
BMP 6B - Post-Construction Plan															
Professional 2	Engineer					200	\$16,000					200	\$16,000		
Professional 3	Manager					40	\$4,000					40	\$4,000		
Notes															
Total: BMP 6B						240	\$20,000	0	\$0			240	\$20,000		
BMP 6C - Training for MS4 staff															
Technician 1	Inspector							8	\$480	8	\$480	16	\$960	8	\$480
Professional 1	Inspector Supervisor							24	\$1,680	16	\$1,120	40	\$2,800	16	\$1,120
Professional 1	Plan Reviewer							8	\$560	12	\$840	20	\$1,400	12	\$840
Professional 2	Engineer							24	\$1,920	8	\$640	32	\$2,560	8	\$640
Professional 3	Manager							8	\$800		\$0	8	\$800		\$0
Notes															
Total: BMP 6C								72	\$5,440	44	\$3,080	116	\$8,520	44	\$3,080
BMP 6D - Review site plans															
Professional 1	Plan reviewer	80						768	\$53,760	768	\$53,760	1536	\$107,520	768	\$53,760
Professional 2	Engineer	80						256	\$20,480	256	\$20,480	512	\$40,960	256	\$20,480
Professional 3	Manager	80						128	\$12,800	128	\$12,800	256	\$25,600	128	\$12,800
Notes															
Total: BMP 6D								1152	\$53,760	768	\$87,040	1920	\$140,800	768	\$53,760
BMP 6E - Inspect BMPs															
Technician 1	Inspector							128	\$7,680	256	\$15,360	384	\$23,040	escalating	
Professional 2	Engineer							24	\$1,920	40	\$3,200	64	\$5,120		
Professional 3	Manager							8	\$800	16	\$1,600	24	\$2,400		
Notes															
Total: BMP 6E								160	\$10,400	312	\$20,160	472	\$30,560		
Totals: All BMPs Ch. 6		0	\$0	0	\$0	240	\$20,000	1384	\$69,600	1124	\$110,280	2748	\$199,880	812	\$56,840

Good Housekeeping BMPs – Large City		Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
	Number	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
BMP 7A - Develop O&M Plan															
Technician 1	Field Staff					60	\$3,600					60	\$3,600		
Professional 1	Maintenance Supervisor					100	\$7,000					100	\$7,000		
Professional 2	Engineer					160	\$12,800					160	\$12,800		
Professional 3	Manager					40	\$4,000					40	\$4,000		
Notes	vehicle costs						\$5,000		\$5,000		\$5,000		\$15,000		\$5,000
Total: BMP 7A						360	\$32,400		\$5,000		\$5,000	360	\$42,400		\$5,000
BMP 7B - Park/Open Space BMPs															
Technician 1	Field Staff									200	\$12,000	200	\$12,000	200	\$12,000
Professional 1	Maintenance Supervisor									120	\$8,400	120	\$8,400	120	\$8,400
Professional 2	Engineer									40	\$3,200	40	\$3,200	40	\$3,200
Professional 3	Manager									24	\$2,400	24	\$2,400	24	\$2,400
Notes															
Total: BMP 7B										384	\$26,000	384	\$26,000	384	\$26,000
BMP 7C - Vehicle Washing BMPs															
Technician 1	Field Staff									200	\$12,000	200	\$12,000	200	\$12,000
Professional 1	Maintenance Supervisor									120	\$8,400	120	\$8,400	120	\$8,400
Professional 2	Engineer									40	\$3,200	40	\$3,200	40	\$3,200
Professional 3	Manager									24	\$2,400	24	\$2,400	24	\$2,400
Notes															
Total: BMP 7C										384	\$26,000	384	\$26,000	384	\$26,000
BMP 7D - Dust Control BMPs															
Technician 1	Field Staff									200	\$12,000	200	\$12,000	200	\$12,000
Professional 1	Maintenance Supervisor									120	\$8,400	120	\$8,400	120	\$8,400
Professional 2	Engineer									40	\$3,200	40	\$3,200	40	\$3,200
Professional 3	Manager									24	\$2,400	24	\$2,400	24	\$2,400
Notes															
Total: BMP 7D										384	\$26,000	384	\$26,000	384	\$26,000

BMP 7E - Storm System Maintenance											
Technician 1	Field Staff					200	\$12,000	200	\$12,000	200	\$12,000
Professional 1	Maintenance Supervisor					120	\$8,400	120	\$8,400	120	\$8,400
Professional 2	Engineer					40	\$3,200	40	\$3,200	40	\$3,200
Professional 3	Manager					24	\$2,400	24	\$2,400	24	\$2,400
Notes											
Total: BMP 7E						384	\$26,000	384	\$26,000	384	\$26,000
BMP 7F - Open Channel/Structural											
Technician 1	Field Staff					200	\$12,000	200	\$12,000	200	\$12,000
Professional 1	Maintenance Supervisor					120	\$8,400	120	\$8,400	120	\$8,400
Professional 2	Engineer					40	\$3,200	40	\$3,200	40	\$3,200
Professional 3	Manager					24	\$2,400	24	\$2,400	24	\$2,400
Notes											
Total: BMP 7F						384	\$26,000	384	\$26,000	384	\$26,000
BMP 7G - Deicing BMPs											
Technician 1	Field Staff					200	\$12,000	200	\$12,000	200	\$12,000
Professional 1	Maintenance Supervisor					120	\$8,400	120	\$8,400	120	\$8,400
Professional 2	Engineer					40	\$3,200	40	\$3,200	40	\$3,200
Professional 3	Manager					24	\$2,400	24	\$2,400	24	\$2,400
Notes											
Total: BMP 7G						384	\$26,000	384	\$26,000	384	\$26,000
BMP 7H - Flood Mgmt BMPs											
Technician 1	Inspector					200	\$12,000	200	\$12,000	200	\$12,000
Technician 1	Field Staff					120	\$7,200	120	\$7,200	120	\$7,200
Professional 1	Maintenance Supervisor					40	\$2,800	40	\$2,800	40	\$2,800
Professional 2	Engineer					24	\$1,920	24	\$1,920	24	\$1,920
Professional 3	Manager					16	\$1,600	16	\$1,600	16	\$1,600
Notes											
Total: BMP 7H						400	\$25,520	400	\$25,520	400	\$25,520

BMP 7I - Employee Training															
Technician 1	Insector							16	\$960	16	\$960	4	\$240		
Technician 1	Field Staff							40	\$2,400	40	\$2,400	10	\$600		
Professional 2	Engineer							32	\$2,560	32	\$2,560	24	\$1,920		
Professional 3	Manager							8	\$800	8	\$800		\$0		
Notes															
Total: BMP 7I								96	\$6,720	96	\$6,720	38	\$2,760		
Optional BMP 7 - Street Sweeping															
Totals: All BMPs Ch. 7		0	\$0	0	\$0	360	\$32,400	0	\$5,000	2800	\$193,240	3160	\$230,640	2742	\$189,280
Other Costs: Annual Report Preparation															
Professional 1	Public Outreach Spec.	40	\$2,800	40	\$2,800	40	\$2,800	40	\$2,800	40	\$2,800	200	\$14,000	40	\$2,800
Professional 2	Engineer	80	\$6,400	80	\$6,400	80	\$6,400	80	\$6,400	80	\$6,400	400	\$32,000	80	\$6,400
Professional 3	Manager	16	\$1,600	16	\$1,600	16	\$1,600	16	\$1,600	16	\$1,600	80	\$8,000	16	\$1,600
Notes															
Total: Annual Reporting		136	\$10,800	136	\$10,800	136	\$10,800	136	\$10,800	136	\$10,800	680	\$54,000	136	\$10,800

LARGE CITY	Year 1		Year 2		Year 3		Year 4		Year 5		Total - Years 1-5		Added Years	
	Hours	Cost	Hours	Cost	Hours	Cost								
Total Program Costs:	1,152	\$116,960	724	\$87,040	3,720	\$305,130	6,297	\$408,922	8,687	\$626,042	20,564	\$1,543,294	8,313	\$568,642